

KACHLIK, Kazimierz, mgr inż.

Silicones. Nafta Pol 18 no.10:280-284 0 '62.

1. Biuro Projektow Przemyslu Naftowego, Krakow.

L 12301.63

EFF(c)/DDC-AFFMC/ARCC Tr.4 BM/KN  
S/081/63/000/005/058/075

AUTHOR: Kachlik, K.

TITLE: Aviation gasclines

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 508, abstract 5P219.  
(Wladom. naft., 1962, v. 8, no. 9, 204 - 208)

TEXT: The basic requirements which must be met by gasolines for aircraft engines and the characteristics of these gasolines according to composition properties are examined. B. Losikov.

[Abstractor's note: Complete translation]

Card 1/1

Kachlik, R

4  
2-27/16

5984

021.398.615.141.2

Smolarski A., Kachlik R. Dependence of Frequency Coefficients of a Magnetron Transmitter upon the Load.

"Zależność współczynników częstotliwości nadajnika magnetronowego od obciążenia". (Prace Przem. Inst. Telekom. No. 24), Warszawa, 1958, PWT, 6 pp., 8 figs.

The load of a magnetron is liable to increase its susceptibility to effects altering its frequency, and in consequence, diminishing the frequency stability; in this connection, increasingly exacting requirements have recently been laid down in the case of all micro-wave transmitters. The measure of frequency stability of a magnetron is the inverted value of the so-called frequency coefficients closely connected with the design and principle of operation of a magnetron. The paper gives in the form of mathematical formulae the conditions required of a load of a magnetron in order that the increase of frequency coefficients caused by the load may not exceed the permissible limit. It is further stated that if these conditions are in some sections of the tuning range not fulfilled, there arises the necessity either to disconnect these sections from normal operation or to employ in the transmission line a phase shifter by means of which the section of unstable operation can in a way be moved away from the generated frequency. These considerations can also be adopted in order to determine the effect of load upon the frequency modulation coefficient of self-excited transmitters, the stability of operation of over-tuned transmitters, and upon the frequency band of impulse transmitters.

KACHLIK, Vl.

Universal frames with interchangeable forming inserts for  
die casting of thermoplastics. Jemna mech opt 8 no.7:  
200-207 Jl '63.

1. Smeralovy zavody, Vyzkumny ustav, Brno.

Kachlikova, H.

Electrification in Yugoslavia. p. 182. ENERGETIKA.  
(Ministerstvo paliv a energetiky. Hlavni sprava elektraren)  
Praha. Vol. 6, no. 4, Apr. 1956.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

KACHLISHVILI R.Z.

ASANMURJ, A.Q., IOANNESYAN, R.A., KARAYEV, A.K., KACHLISHVILI, K.Z.,  
BULKEV, S.M., MACHINSKIY, N.D., OSTROVSKIY, A.P., SLAVSKIY, V.M.,  
TINOVETEV, N.S.,

Problems of deep-drilling

Report to be submitted for the Sixth World Petroleum Congress,  
Frankfurt, 16-26 June 63

AUTHOR: Kachlishvili, N.Z. and Ozerenko, A.F. Sov/93-58-4-8/19

TITLE: Technological Prerequisites for Increasing Drilling Rates Under Complex Geological Conditions ( Tekhnologicheskiye predposyalki uvelicheniya skorostey bureniya v slozhnykh geologicheskikh usloviyakh )

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 4, pg 33-38 (USSR)

ABSTRACT: The article states that the success of drilling for Mesozoic crude in the Peredovoy khrebet and Chernyye gory region will depend on the development of suitable drilling techniques for the Maykop and Lower Chokrak clay deposits. In Groznyy such clay deposits were first thoroughly drilled at the Karabulak oil pool in 1953. This oil pool was drilled by the rotary method using 6" and 5" drilling pipe with ZN and ZSh locking devices respectively. Success was achieved by employing special drilling rates and the GrozNII method of gradually increasing the drilling fluid weight. A cross section of the Karabulak oil pool is presented by Fig. 1. The relationship between industrial drilling rates and the velocity of the ascending stream of drilling fluid in the annular space is reflected in Figs. 2-3. On the basis of data on the Karabulak oil pool the authors conclude that: 1) the degree of drilling difficulty in any region must be studied from the view point of geotectonic and technological conditions, 2) the symptoms of drilling difficulty due to borehole shrinkage and caving are similar, and as a result the drilling difficulty is often inaccurately determined, 3) reduced drilling cycles, high viscosity drilling fluids, and high static

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Sov/93-58-4-8/19

Technological Prerequisites for Increasing Drilling Rates)

shear stress can complicate drilling operations, lower drilling velocities, cause accidents, and raise the consumption of weighting materials, 4) the quantity and the colloidal and thixotropic properties of drilling fluid for a well must be determined in such a manner as to secure a turbulent flow of fluid in the annular space, the viscosity and the static shear stress must be determined in relation to the mechanical speed and daily footage per bit, and drilling fluid in the well must be maintained at low viscosity and it must be kept highly fluid, and 5) the size of bit and drill pipe must be selected so as to ensure turbulent flow of the drilling fluid in the annular space. There are 3 figures.

1. Petroleum industry    2. Well drilling--Theory    3. Drilling fluids--Performance  
Card 2/2    4. Well drilling--Geophysical factors

KACHLISHVILI, N.Z.; OZERENKO, A.F.

Some results of drilling in geologically complex areas of  
Groznyy. Neft. khoz. 38 no.4:41-50 Ap '60. (MIRA 14:8)  
(Groznyy Province--Oil well drilling)

KACHLISHVILI, N.Z.; BASKAKOV, N.P.; TERENT'YEV, Yu.G.; SHAN'GIN,  
A.N.

Circulation loss control in the Karabylakskaya-Achaluki area.  
Neft. khoz. 39 no.6:19-23 Je '61. (MIRA 14:8)  
(Chechen-Ingush A.S.S.R.--Oil well drilling fluids)

KACHLISHVILI, Nikolay Zakharovich; BASKAKOV, Nikolay Prokhorovich;  
OZERENKO, Anatoliy Fedorovich; ISAYEVA, V.V., ved. red.;  
POLOSINA, A.S., tekhn. red.

[Drilling deep wells; practice of oil-field workers of the  
Chechen-Ingush A.S.S.R.] Burenie glubokikh skvashin; opyt  
neftianikov Checheno-Ingushskoi ASSR. Moskva, Gostoptekh-  
izdat, 1963. 169 p. (MIRA 16:7)  
(Chechen-Ingush A.S.S.R.--Oil well drilling)

66283

SOV/181-1-11-18/27

24(5) 24.6/00

AUTHOR: Kachlishvili, Z. S.TITLE: Elastic Scattering of Mott's Exciton by Na<sup>+</sup>-Ion in Born's Approximation

PERIODICAL: Fizika tverdogo tela, 1959, Vol 1, Nr 11, pp 1747-1749 (USSR)

ABSTRACT: Tseretsvadze, in reference 1, investigated the scattering of excitons in NaCl-crystals on the various defects (among them also on Na<sup>+</sup>-vacancies) in microscopic approximation. In the present brief publication the author gives the calculation of the elastic scattering cross section of Mott's exciton by Na<sup>+</sup>-ions (or on Na<sup>+</sup>-vacancies) in Born's approximation for crystals in which Na<sup>+</sup> (or its vacancy) can be regarded as impurity center, and where excitons of large radii are excited. The potential V(r) of Na<sup>+</sup> is set down according to reference 2. It is assumed that the potential energy of the interaction between exciton and scattering center can be described by  $U(r_1, r_2) = -eV(r_1)+eV(r_2)$ , (where the subscripts 1 and 2 refer to electron and hole respectively). Then the normalized wave functions for the initial and final state are given in macroscopic approximation, as well as the matrix element of the transition  $U_{kk'}$ . An expression for the differential scattering

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S/058/62/000/004/092/160  
A061/A101

AUTHORS: Tservadze, A.; Chkhartishvili, Yu., Kachlishvili, Z.

TITLE: Components of ionic and atomic bonds in the AlN semiconductor

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962; 4, abstract 4E30  
(Tbilisi universitetis shromebi, Tr. Tbilissk. un-ta, 1960, 86,  
313-320, Georgian; Russian summary)

TEXT: The variation method was applied to calculate the ionic and atomic components of the  $\text{Al}^- - \text{N}^+$  bond in AlN crystals. The common wave function of the two electrons of the  $\text{Al}^-$ ,  $\text{N}^+$  ion system (one electron from each ion), describing both the ionic and the atomic bond, was devised. The components of the respective bonds were determined from the condition of minimum energy in the system. The fractions of ionic and atomic components in the common wave function were found to be 80% and 20%, respectively.

[Abstracter's note: Complete translation]

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KACHLISHVILI, Z.S.

Elastic scattering of nonlocalized excitons on color centers. Fiz.  
tver.tela 3 no.7:2141-2146 Jl '61. (MIRA 14:8)

1. Tbilisskiy gosudarstvennyy universitet imeni I.V.Stalina.  
(Excitons—Scattering) (Color centers)

KACHLISHVILI, Z.S.

Elastic scattering of nonlocalized excitons on U-centers.  
Fiz. tver. tela 3 no.9:2864-2868 S '61. (MIRA 14:9)

1. Tbilisskiy gosudarstvennyy universitet imeni I.V. Stalina.  
(Excitons--Scattering)

S/181/62/004/003/027/045  
B125/B102

AUTHOR: Kachlishvili, Z. S.

TITLE: Interaction of a nonlocal exciton with an F' center

PERIODICAL: Fizika tverdogo tela, v. 4, no. 3, 1962, 736 - 744

TEXT: The author makes a perturbation theoretical study of the elastic exciton scattering from F' centers and the inelastic exciton scattering associated with annihilation of the exciton. The matrix element

$W_{ab} = \int \Psi_b^* \Psi_a d\tau$  of the transition of the system is calculated with the potential energy of the interaction between exciton and F' center being regarded as small perturbation;  $W_{int} = W_{vac} + W_{el} + e\varphi(\vec{r}_3) - e\varphi(\vec{r}_4)$  (1)

with  $W_{vac} = -eV_1(\vec{r}_3) + eV_1(\vec{r}_4)$  (2),  $V_1(\vec{r}) = (e/r) - (1+B(|\vec{r}|))/|\vec{r}|$  (3),

and

$$\varphi(r) = -ec \left[ \int \frac{|\psi_p(r_1 r_2)|^2 dr_1 dr_2}{|r_1 - r|} + \int' \frac{|\psi_p(r_1 r_2)|^2 dr_1 dr_2}{|r_2 - r|} \right], \quad (5). \quad V_1(\vec{r}) \text{ is the}$$

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Interaction of a ...

vacancy potential of the halogen ion,  $\xi$  is the static dielectric constant; for  $\vec{r} \rightarrow \infty$ ,  $B(|\vec{r}|) \rightarrow 0$ . With the approximate wave function of the F' center,  $\Psi_{F'}(r_1, r_2) = A^2(1+\alpha r_1)(1+\alpha r_2) e^{-\alpha(r_1+r_2)}$  (10),

$$d\sigma = \frac{64\mu_{ex}^2 e^4 dQ}{h^4 \epsilon^2 k_0^4 \sin^4 \frac{\theta}{2}} \left[ \frac{1}{(4 + g_3^2 a_{ex}^2 q^2)^2} - \frac{1}{(4 + g_4^2 a_{ex}^2 q^2)^2} \right]^2 \times$$

$$\times \left[ 1 + qF(q) - 2 \frac{(1 + \frac{q}{2})}{(1 + q)^2} \right]^2$$

(12) follows for the effective cross section, and from it  $\sigma \approx 4\pi e^4 a_{ex}^4 (\mu_3 - \mu_4)^2 / h^4 \epsilon^2$  (14) for  $q \ll 1/a_{ex}$  and

$$d\sigma \approx 71.75 \frac{\mu_{ex}^2 e^4 dQ}{h^4 \epsilon^2 a_{ex}^8 k_0^4 \sin^{12} \frac{\theta}{2}} \left( \frac{g_3^2 - g_4^2}{g_3^4 g_4^4} \right). \quad (15)$$

(15) for  $q \gg 1/a_{ex}$ . At large  $q$ , the exciton

passes through the electron part of the F' center and is mainly scattered from the "core" of the F' center. Owing to (1) it is sufficient to determine

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mine a criterion for the applicability of the perturbation theory to a free electron or a hole. The potential consists of a pure Coulomb potential and a non-Coulomb potential with a radius of action of the order of  $a_0$  or less. With  $k_0 \ll 1/a_0$ , the excitons are scattered from the pure Coulomb potential, and the present method yields the Rutherford formula as the exact result. For  $k_0 \gg 1/a_0$ , the cross section tends to (14) and (15) for the angle  $\vartheta \ll 1/k_0 a_0$ ;  $q \ll 1/a_0$ , and  $\vartheta \gg 1/k_0 a_0$ ;  $q \gg 1/a_0$ , respectively. The perturbation theoretical method gives accurate results for the Coulomb term. The criterion for the applicability of the perturbation theory to the non-Coulomb term  $U_1 = -(e^2/c r_3) B_1(|\vec{r}_3|)$  which holds both for electrons and holes is

$$E \gg \frac{\mu_3 e^4}{2 h^2 c^2} \left| 1 + \frac{1}{2.72} \left( 2 + \sum_{n=1}^{n_1} A_n \right) + \sum_{n=1}^{n_1} C_n \frac{(n-1)!}{B_n^2} \right|^2. \quad (24), \text{ and for NaCl,}$$

$E \gg 0.09 (\mu_3 e^4 / 2 h^2 c^2)$ .  $B(|\vec{r}_3|)$  figures in the general expression (3) for the vacancy potential of the halogen ion. The cross section of inelastic

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8/181/62/004/003/027/045  
B125/B102

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scattering causing a new perturbation center and a free electron is calculated by the Stuckelberg method in quasiclassical approximation at low energies of nonpolarized excitons (in the sense of I. N. Dykman and S. I. Pekar, DAN SSSR, 83, 825, 1952) with neglcotion of the polaron effect.

$$\sigma = \pi R_1^3 \left[ 1 - \frac{V_{00}(R_1)}{k_0^3} \right] f(x), \quad (60),$$

$$f(x) = 2 \int_1^\infty e^{-xz} (1 - e^{-xz}) z^{-3} dz, \quad (61),$$

$$x = \frac{A_1}{\sqrt{k_0^3 - V_{00}(R_1)}}; \quad A_1 = \frac{(2\pi)^{1/2} |V_{01}(R_1)|^3}{\left| \left( \frac{dV_{00}(R)}{dR} \right)_{R=R_1} - \left( \frac{dV_{11}(R)}{dR} \right)_{R=R_1} \right|}. \quad (62)$$

are obtained where  $V_{00}(R) = (2e^2/\hbar^2 \epsilon)(\mu_4 - \mu_3)/R$ . No suitable experiments are known to check the present theoretical considerations. I. A. Mirtskhulav is thanked for interest and discussions. There are 9 references: 8 Soviet-bloc and 1 non-Soviet-bloc.

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S/181/62/004/007/006/037  
B102/B104

AUTHORS: Tsertsvadze, A. A., Chkhartishvili, Yu. V., and Kachlishvili,  
Z. S.

TITLE: Calculation of ionic and atomic contributions in the silicon carbide crystal bond

PERIODICAL: Fizika tverdogo tela, v. 4, no. 7, 1962, 1743 - 1747

TEXT: The atomic and ionic contributions to the bond in SiC crystals are calculated by a variational method, assuming a tetrahedral structure and an Si-C distance of 1.89 Å. The bond between two neighboring Si and C atoms is considered to be caused by two electrons so that the wave function of this system is assumed to have the form:

$\Psi = u\Psi_{(1)}^a \Psi_{(2)}^s + v\Psi_{(1)}^s \Psi_{(2)}^a + w [\Psi_{(1)}^a \Psi_{(2)}^s + \Psi_{(1)}^s \Psi_{(2)}^a]$ . (2) where the states are characterized by  $u$ ,  $v$ ,  $w$ . Then  $u=v=0$  describes a purely atomic state,  $w=0$  a purely ionic state. With  $a$  and  $s$  standing for Si and C, respectively, (1) and (2) number the electrons.  $u$ ,  $v$ , and  $w$  are determined by three linear equations the coefficients of which are calculated numerically. If both electrons are

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Calculation of ionic and ...

S/181/62/004/007/006/037  
B102/B104

at the Si atom then this state has 3% of the total bond energy, if both are at the C-atom, it has 9% (according to Pauling 12%) and with a purely homopolar bond it has 78%. The remaining 10% belong to mixed states. The energy necessary for breaking the Si-C bond is 0.209 atomic units. This value is in accordance with data obtained by other authors.  $\Delta E = 0.21$  atomic units was obtained experimentally for  $\text{SiC} \rightarrow \text{Si} + \text{C}$  (Phys. Rev. 92, 1373, 1953).

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: January 24, 1962

Card 2/2

KRIPYAKEVICH, R.I.; BABEY, Yu.I.; LITVIN, A.K.; KACHMAR, B.F.

Effect of cyclic elastic-plastic deformation of steel on its tendency  
toward brittle failure in neutral electrolytes. Vljan, rab. sred na  
svois. mat. no.3:23-27 '64. (MIRA 17:10)

KUSLITSKIY, A.B.; KACHMAR, B.E.; YEFIMENKO, Yu.M.; CHABAN, D.V.

Effect of nonmetallic inclusions on the strength of hardened  
ShKh15 steel with hydrogen absorption. Fiz.-khim. mekh. mat.  
1 no.5:583-587 '65. (MIRA 19:1)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov i Institut  
elektrosvarki imeni Patona AN UkrSSR, Kiyev. Submitted April 11,  
1965.

KACHMAR, B.F.; KRIFYAKEVICH, R.I.; LITVIN, A.K.

Equipment for the investigation of metal penetrability by hydrogen at  
high temperatures. Vliian. rab. sred na svois. mat. no. 3:35-39 '64.  
(MIRA 17:10)

(1) L 12183-66 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) MJW/JD  
ACC NR: AP5028376 SOURCE CODE: UR/0369/65/001/005/0583/0587

AUTHOR: Kuslitskiy, A. B.; Kachmar, B. F.; Yefimenko, Yu. M.; Chaban, D. V.

ORG: Physics-engineering Institute, AN UkrSSR, L'vov (Fiziko-mekhanicheskiy  
institut AN UkrSSR); Electric Welding Institute im. Ye. O. Paton, AN UkrSSR,  
Kiev (Institut elektrosvarki AN UkrSSR)

TITLE: The effect of nonmetallic inclusions on the strength of hardened ShKh15  
steel during hydrogenation

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 5, 1965, 583-587

TOPIC TAGS: steel property, hydrogenation, metal strength, nonmetallic inclusion,  
martensite steel, ball bearing steel, SOLID MECHANICAL PROPERTY

ABSTRACT: The authors determined the effect of impurities in martensite (HRC =  
61-63) ball bearing steel on its mechanical properties during hydrogenation.  
The hydrogenation process sharply reduces the strength of steel of all methods of  
preparation, depending on the impurity content in the steel. An increase in the  
quantity of nonmetallic inclusions decreases the strength of the steel. The  
existing methods of qualitative and quantitative analyses of the content of non-  
metallic inclusions (metallographic and electrolytic separation) do not provide

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L 12183-66

ACC NR: AP5028376

sufficient reliability in the investigation of the higher grades of steel made by vacuum, molten slag electric process, and the electron-beam remelting methods. The most unfavorable nonmetallic inclusions are brittle particles, such as minute titanium inclusions and silica particles, which are not detectable by metallographic analysis. The most effective method of removing the nonmetallic inclusions and gases from the steel is the electron-beam remelting process.

Orig. art. has: 2 figures and 3 tables.

SUB CODE: 11 / SUER DATE: 11Apr65 / ORIG REF: 009 / OTH REF: 004

Card 2/2

KACHMAR, M.G., inzh.; POPOV, K.V., kand. tekhn. nauk

Increasing the resistance of welded dredge poles to brittle  
fracture at low temperatures. Svar. proizv. no.32-33 Mr  
'64. (MIRA 18:9)

1. Tsentral'nyye remontnyye masterskiye tresta "Lanzoloto"  
(for Kachmar). 2. Institut nefte- i uglekhimicheskogo sinteza  
Sibirskogo otdeleniya AN SSSR (for Popov).

KACHMAR, Ye.G.; KHRUSTALEVA, V.A.; SHITSKOVA, A.P., otv. red.

[Determination of harmful substances in the air by means  
of solid granulated sorbents] Opredelenie vrednykh ve-  
shchestv v atmosfernom vozdukhe s primeneniem tverdykh  
zernennykh sorbentov. Moskva, Mosk. in-t gigienny im. F.F.  
Erishmana. No.1. 1964. 35 p. (MIRA 19:1)

KACHMAR, Yu.D.; PETRASH, I.N.

Practice in hydraulic fracturing along the casing string in fields of the Oil Field Administration of the Dolina Petroleum Trust. Nefteprom. delo no.7:17-18 '65. (MIA 18:2)

1. Neftepromyelovoje upravleniye "Dolinafte".

KACHMAR, Yu.D.

Determining the effect of counterpressure on the efficiency of  
sand-jet perforation. Nart. i gaz. prom. no. 2:47-50 Ap-Je '65.  
(MIRA 18x6)

VORONETSKIY, M.K.; CHATYUK, A.M.; KACHMAR, Yu.D.; KOVALEVICH, V.N.; PETRASH, I.N.;  
CHEKALYUK, S.P.

Automated free platon. Mash. i naft. obor. no.5t24-26 155.  
(MIRA 18:6)

I. Nefteprormysloevye upravleniye "Dolinaneft'", Dolina.

KACHMAR, Ye.G., mladshiy nauchnyy sotrudnik

Determination of benzene, toluene and xylene present simultaneously  
in the air. Gig. i san. 25 no. 5:58-62 My '60. (MIRA 13:10)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta sanitarii  
i gigiyeny imeni F.F. Erishmana Ministerstva zdravookhraneniya  
RSFSR. (AIR POLLUTION) (BENZENE) (TOLUENE) (XYLENE)

ALEKSEYEVA, M.V.; KACHMAR, Ye.G.; KHRUSTALEVA, V.A.

Determination of isopropylbenzene hydroperoxide, dimethylphenylcarbinol, and d-methylstyrene in air. Uch.zap.Mosk.nauch.-issl.-inst.san.i gig. no.5:5-16 '60. (MIRA 15:3)  
(Air--Analysis) (Hydroperoxide) (Alcohols) (Styrene)

GRUZDEVA, R.A. [deceased]; VISHNEVSKAYA, S.S.; KACHMAR, Ye.G.

Some problems of work hygiene in the production of thio  
rubber. Uch. zap. Mosk. nauch.-issl. inst. san. i gig. no.9:  
(MIRA 16:11)  
85-89 '61

KACHMARCHIK, A.: Master Med Sci (diss) -- "Experimental study of the physiological laws of immunity in immunization with adsorbed tetanus anatoxin".  
Moscow, 1958. 15 pp (Acad Med Sci USSR, Inst of Epidemiology and Microbiology  
in Honorary Acad N. F. Gamaleya), 200 copies (KL, No 6, 1959, 144)

KACHMARCHIK, A.

Experimental study of the physiological regularities of immunity  
following immunization with sorbed tetanus anatoxin. Report No. 3:  
Dynamics of immunological reactions of the body. Zhur. mikrobiol.  
epid. i imm. 41 no. 2:65-69 F '64. (MIFA 17:9)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN  
SSSR.

KACHMARCHIK, A.

Experimental study of physiological regularities of immunity in immunization with sorbed tetanus antitoxin. Report No.1: Determination of the thresholds of primary stimulation of immunization. Zhur. mikrobiol., epid.i immun. 40 no.12:98-101 D '63.

(MIRA 17:12)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

KACHMARCHIK, A.

Experimental study of the physiological regularities of immunity following immunization with sorbed tetanus anatoxin. Report No.2:  
Determination of the thresholds of secondary immunity stimulation.  
Zhur. mikrobiol., epid. i immun. 41 no.1:143-146 Ja '64.  
(MIRA 18,2)  
1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR,  
Moskva.

ACCESSION NR: AP4009082

S/0016/84/000/001/0143/0146

AUTHOR: Kachmarchik, A.

TITLE: An experimental study of the physiological regularities of immunity during immunization with adsorbed tetanus toxoid. II. Determination of the thresholds of secondary immunizing stimulation

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 1, 1964, 143-146

TOPIC TAGS: Immunity, immune response, primary immunization, secondary immunization, immunization threshold, toxoid, tetanus toxoid, mouse immunization, adsorbed tetanus toxoid

ABSTRACT: In a continuation of previously reported work on the primary immune response to tetanus toxoid in white mice, 3 groups of mice received either 15 BU adsorbed, 1 BU adsorbed or 2000 BU non-adsorbed tetanus toxoid; 45 days later, each group was divided and reimmunized with either adsorbed (0.1-600 BU) or non-adsorbed (0.1-2000 BU) toxoid, and the serum levels of tetanus antitoxin were determined on the 10th day. Whereas the minimal and maximal doses, resp. for primary immunization were 0.1 and 10 with adsorbed and 600 and over 9000 with non-adsorbed toxoid, the corresponding thresholds for secondary immunization were 2 and Card 1/2

ACCESSION NR: AP4009082

300 for adsorbed and 1 and 600 for non-adsorbed toxoid. In animals showing high levels of primary immunization, the difference between adsorbed and non-adsorbed toxoid was reduced, and the latter was even 30-50% more effective in the most immune group. In another experiment, mice were reimmunized with varying doses of non-adsorbed toxoid 45 days after receiving 0.1-300 BU of adsorbed toxoid; the minimal effective dose for secondary immunization in these animals was 0.1 BU, regardless of the level of primary immunity. Orig. art. has: 3 tables.

ASSOCIATION: Institut epidemiologii i mikrobiologii im. Gamalei AMN SSSR, Moscow  
(Institute of Epidemiology and Microbiology, AMN SSSR, Moscow)

SUBMITTED: 00

DATE ACQ: 03Feb64

ENCL: 00

SUB CODE: AM, BC

NO REF SOV: 003

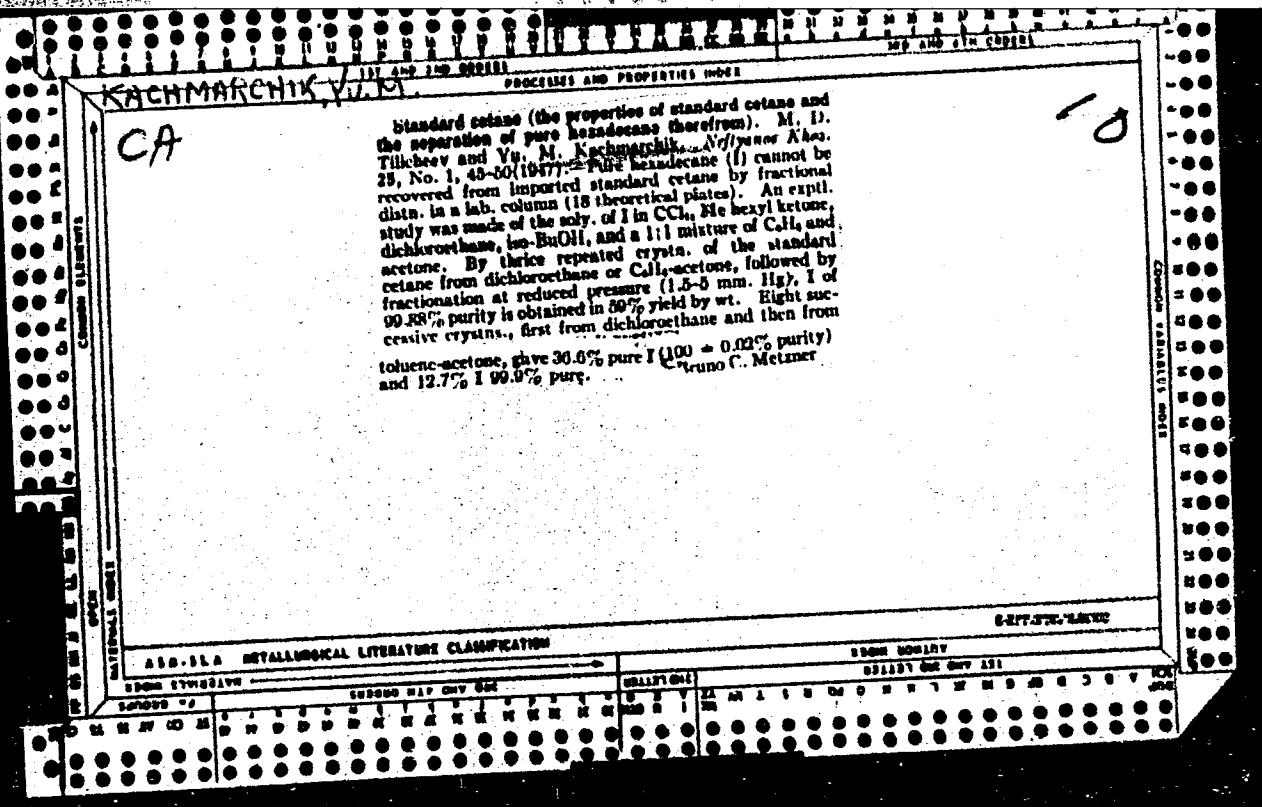
OTHER: 001

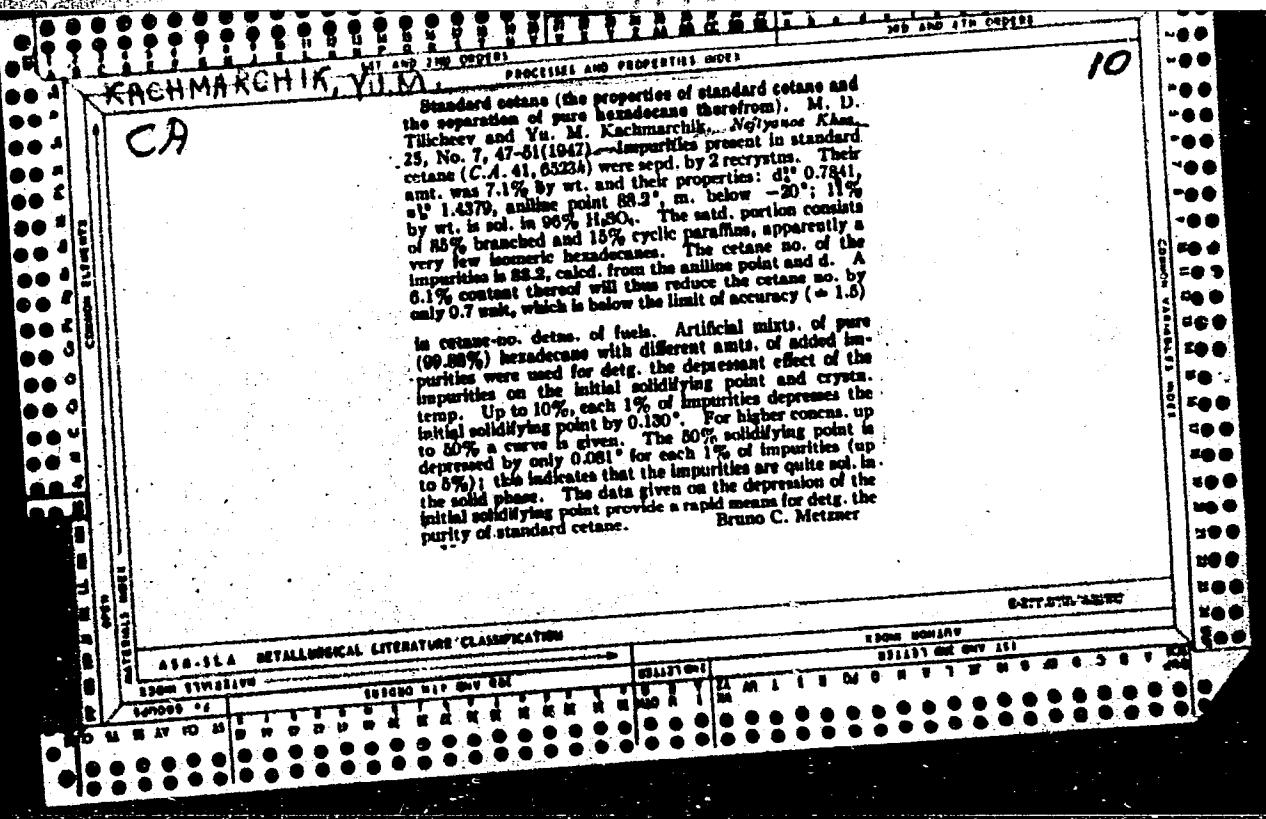
Card 2/2

KACHMARCHIK, Yu. M.

"A Method for the Determination of Moisture in Gases," by A.I.Doladugin, Yu. L. Khmel'nitskiy, and Yu. M. Kachmarchik, Zavodskaya Lab. 11, 530-4 (1945).

The method is based on the reaction between  $\text{CaC}_2$  and water with the formation of  $\text{Ca}(\text{OH})_2$  and  $\text{C}_2\text{H}_2$ . The completeness of the absorption of water by  $\text{CaC}_2$  was detd. by the test for  $\text{C}_2\text{H}_2$  with the Illosva reagent. Pass 100 l. of gas through 3 U-tubes filled with  $\text{CaC}_2$  and dry  $\text{N}_2$  and measure the gain in wt. 6 references. W.R.Henn





KACHMARCHIK, Yu. M.

CH<sub>3</sub>

10

Basic physicochemical constants of alkanes C<sub>n</sub>-n. M. D. Tillebeev and Yu. M. Kachmarchik. Zhur. Osnovnoi Khim. (J. Gen. Chem.) 24, 78-85 (1951).—Alkanes obtained from paraffin cracking and purified by crystn. and distn. were used for critical detn. of the principal consts.; distn. and crystn. curves are reproduced. *Tridecane*, initial crystn. temp. -5.39 ± 0.00°, temp. drop at 50% crystn. 0.06 ± 0.007°, initial crystn. temp. recalc. to 100% pure material -5.33 ± 0.00°, d<sub>4</sub><sup>20</sup> 0.7501 (in carbon), n<sub>D</sub><sup>20</sup> 1.4237, ailine point 86.5°, purity 99.7 mol.-%. The data for the following alkanes are given in the same order. *Tetradecane*, 5.74 ± 0.00°, 0.000°, 5.75 ± 0.01°, 0.7330, 1.4291, 80.4°, 100%; *Pentadecane*, 0.81 ± 0.00°, 0.00 ± 0.007°, 0.87 ± 0.00°, 0.7684, 1.4322, 92.1°, 99.7%; *Hexadecane*, 18.06 ± 0.00°, 0.028 ± 0.007°, 18.09 ± 0.00°, 0.7735, 1.43451, 94.5°, 99.6%; *Heptadecane*, 21.86 ± 0.00°, 0.043 ± 0.007°, 21.90 ± 0.00°, (d<sub>4</sub><sup>20</sup> 0.7769), 0.7783, —, 97.3°, 99.8%; *Octadecane*, 28.10 ± 0.00°, 0.000°, 28.10 ± 0.00°, (d<sub>4</sub><sup>20</sup> 0.7762), 0.7823, —, 99.7°, 100%; *Nonadecane*, 31.75 ± 0.00°, 0.006 ± 0.008°, 31.82 ± 0.08°, (d<sub>4</sub><sup>20</sup> 0.7780), 0.7858, —, 102.7°, 99.7%. G. M. Kusolapull

1951

KACHMAREK, V.

Biocenotic relations between predatory animals of the soil fauna.  
Vop. ekol. 4:34-35 '62. (MIRA 15:11)

1. Institut ekologii Pol'skoy akademii nauk, Varshava.  
(Soil fauna)

KACHMAREK, Ya., prof.

Economic strength of an abrasive in ultrasonic and jet-abrasive  
grinding. Vest. mashinostr. 45 no.6:43-47 Je '65.  
(MIRA 18:6)

KACHMAREK, Yan [Kaczmarek, Jan], doktor tekhn. nauk, prof.

The 25th anniversary of the activity of the Polish Metal-Cutting  
Institute. Stan. i instr. 35 no.7:1-3 Jl '64. (MIRA 17:10)

1. Direktor Instituta obrabotki metallow rezaniyem, Pol'skaya  
Narodnaya Respublika.

POLYAKIN, Yu.L.; KACHMASOV, A.A.

Determination of molybdenum sulfide. Zav.lab. 29 no.7:807 '63.  
(MIRA 16:8)

1. Dagestanskiy gosudarstvennyy universitet.  
(Molybdenum sulfide)

KACHNIC, A.

"A Contribution to the Organizational and Economic Problems of the Forest Industry" p. 114, (POLANA, Vol. 9, no. 5, May 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 2, No. 11, Nov. 1953, Uncl.

KACHNÍC, Milen, MUDr.

Fungus diseases at the dermatological clinic in Kosice during  
1946-54. Česk. derm. 31 no.3:141-148 June 56.

1. Z dermatovenerologickej kliniky Kosice (predn. doc. MUDr.  
Eugen Malý).

(SKIN, diseases,  
fungus dis., statist. in Czech. (Cs))  
(FUNGUS DISEASES,  
skin, statist. in Czech. (Cs))

KACHINIC, 77.

4. Conventions of Health Publishers of Socialist Countries  
F. KALIN; pp 80-82.

2. Practices of M. Pirogov on Development of Orthopedic Surgery and Traumatology on the Occasion of the 100th Anniversary of His Birth; S. G. ZEMELIAH; BMJ. CLAVENNAE, pp 780-785.

3. Effect of Peripheral Circulatory Defects of Lower Limbs on Efficiency of Functional Cooling and Warming; A. N. NOGUCHI; J. JAPANESE ASSOC. FOR INDUSTRIAL HYGIENE (Transl. by T. H. PARKER, University of Michigan); Director (freelance) E. MILY; No. 1 (English Summary) pp 789-807.

1. Development of Progressive Russian Medicine; F. KUDRYAVTSEV; Sov. Med. Press. (Soviet Medical Publishing House); Moscow, 1955. (Russian translation, J. M. LEIBOWITZ). (Review) S. R. LASKER; BMJ, pp 765-767.

— 2 —

KACHNIC, M.

Experience with venous function tests in the examination of patients  
with varicose complexes. Bratisl. lek. listy 41 no.7:419-423 '61.

1. Z Dermatovenereologickej kliniky University P. J. Safarika v Kosiciach,  
prednosta doc. MUDr. E. Maly.

(VARICOSE VEINS diag)

KACHNIC, M.

Value of media containing Actidionom in cultivation of dermatophytes.  
Cesk. derm. 37 no. 1:40-44 F '62.

1. Dermatovenerologicka klinika UPJS v Kosiciach, prednosta doc. MUDr.  
E. Maly.

(FUNGI culture) (ANTIBIOTICS pharmacol)

KACHNIC, M.

Dynamics of the appearance of zoophilic dermatophytes in the former Kosice Region. Cesk. derm. 37 no.2:103-107 Ap '62.

1. Dermatovenerologicka klinika LFUPJS v Kosiciach, prednosta doc.

MUDr. E. Maly.  
(DERMATOMYCOSIS epidem) (ZOOSES)

KACHNIC, M.; TKACIK, S.

Results of mycological examinations of trichophytosis in cattle  
with reference to the development of dermatomycoses in agricultural  
workers. Cesk. derm. 38 no.1:43-46 F '63.

1. Dermatovenerologicka katedra Lekarskej fakulty UPJS v Kosiciach,  
veduci doc. dr. E. Majl Seminar pre doskolenie veterinarnych lekarov,  
veduci poboicky v Kosiciach MVDr. S. Tkacik.  
(CATTLE DISEASES) (TINEA) (DERMATOMYCOSIS)  
(OCCUPATIONAL DERMATITIS) (AGRICULTURAL WORKERS' DISEASES)

KACHNIC, M.; BREZNY, I.; KRAJAKOVA, O.

EEG examination in children after roentgen epilation of the scalp.  
Preliminary report. Bratisl. lek. listy 44 no.10:616-619 '64

1. Dermatologicka katedra University P.J.Safarika v Kosiciach  
(veduci: doc. MUDr. E.Maly) a Neurologicka katedra University  
P.J.Safarika v Kosiciach (veduci: doc. MUDr. J.Hympan).

KACHNIC,M.; VALLASEK,I. ; SAK.M.

Experiences with the peroral treatment of superficial trichophytosis capititis (*Trichophyton violaceum*) with friseofulvin.  
Cesk. derm. 39 no.1:37-41 1964.

L. Dermato-venerologicka katedra Lekarskej fakulty UPJS v  
Kosicach (veduci: doc.dr.E.Maly) a Kozne oddelenie OUNZ  
v Humennom (vedouci: MUDr. I.Vallasek).

\*

KACHNIC, M.

Mycological studies with regard to mixed mycotic infections.  
Cesk. derm. 40 no.3:150-155 My '65.

1. Dermato-venerologicka katedra Lekarskej fakulty University  
P.J. Safarika v Kosiciach (veduci: doc. dr. E. Maly).

NEMEC, M.; KOVAR, Z.; KACHNIC, M.

Roentgenological changes of the osteoarticular system in  
ulcus cruris. Acta chir. orthop. traum. Cech. 32 no.3:254-261  
Je '65.

1. Ortopedicka klinika (prednosta doc. dr. M. Haluzicky) a  
kozna klinika (prednosta doc. dr. E. Maly) Lekarskej fakulty  
University P.J. Safarika v Kosiciach.

KACHNOV, I.M. (Leningrad).

Plastic bending of curved thin-walled pipes. Inv. AN SSSR. Otd.  
tekhn. nauk no.5:42-47 My '57. (MIRA 1048)  
(Pipe bending)

*C.Y.KACHOR, L.F.*

Construction of aspirators for dust and gas sampling in  
air. I. M. Kachor. Givnes / Sov. 1960, No. 4, 48-51.  
—Description with diagrams is given of 2 sampling aspirators which are operated from the carburetor manifold  
of an automobile as the source of partial vacuum. Con-  
nections may be made either by metal pipes or by rubber  
hoses. O. M. Konoplev

SOKOLOVSKIY, M.S.; GABINOVA, Zh.L.; POPOV, B.V.; KACHOR, L.F.;  
GOFMELER, V.A., red.

[Sanitary control of air pollution in Moscow; results of the  
work of the Sanitary Epidemiology Station of Moscow] Sani-  
tarnaia okhrana atmosfernogo vozdukha Moskvy; iz opyta rabo-  
ty Sanitarno-epidemiologicheskoi stantsii goroda Moskvy. Mo-  
skva, Meditsina, 1965. 92 p. (MIRA 18:8)

KACHOROVSKAYA, I.B.

Rotation X-ray therapy in cancer of the larynx. Vest. rent. i rad. 33  
no.6:52-57 N-0 '58. (MIRA 12:1)

1. Iz rentgenoterapevcheskogo otdela (zav. - prof. L.D. Podlyashuk,  
[deceased] Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-  
radiologicheskogo instituta (dir. - dots. I.G. Lagunova) Ministerstva  
zdravookhraneniya RSFSR.

(LARYNX, neoplasms

rotation x-ray ther. (Rus))

(RADIOTHERAPY, in various dis.

cancer of larynx, rotation x-ray (Rus))

PERESLEGIN, I.A. (Moskva); YEVSTIGNEYEVA, T.P. (Moskva);  
KACHOROVSKAYA, I.B. (Moskva); PERESLENI, N.A. (Moskva)

Methodology of rotation X-ray therapy of intrathoracic tumors  
by means of a two-tube apparatus; experimental dosimetric  
studies. Trudy TSentr. nauch.-issl. inst. rentg. i rad. 11  
no.1:231-241 '64.

Problem of the dosimetric basis of various methodologies of  
radiotherapy of nontumorous diseases. Ibid.:242-251  
(MIRA 18:11)

KACHOROVSKAYA, I. B., CAND MED SCI, "ROTATORY X-RAY  
THERAPY<sup>ion</sup> OF CANCER OF THE LARYNX." MOSCOW, 1961. (MIN.  
OF HEALTH USSR, CENTRAL INST FOR ADVANCED TRAINING OF  
PHYSICIANS). (KL, 3-61, 232).

419

PERESLENI, N.A.; KACHOLOVSKAYA, I.B.; TOSTOVSEVA, T.F.

Rotational X-ray therapy in cancer of the laryngo-pharynx,  
cervical and upper thoracic segments of the esophagus. Med.  
rad. 6 no.4:9-15 '61. (MIRA 14:12)  
(ESOPHAGUS--CANCER) (X-RAYS--THERAPEUTIC USE)

KALINA, V.C.; KACHOBOVSKAYA, I.B.; MERKOVA, M.A.; GLINZBURG, M.B.

Sequelae of radiotherapy of cancer of the larynx. Med. rad.  
9 no.11:3-7 N '64. (MIRA 18:9)

1. Nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut  
Ministerstva zdravookhraneniya RSFSR.

KACHOROVSKAYA, I.B. (Moskva)

Our experience of radiotherapy in recurrences of laryngeal cancer. Trudy TSentr. nauch.-issl. inst. rentg. i rad. ll no.1:300-304 '64. (MIRA 18:11)

KACHOROVSKAYA, O. V.

Physiotherapy and physical therapy following traumas Kiev, Gos. med. izd-vo, 1946. 14 p.

KACHOROVSKAYA, Ol'ga Vladimirovna; KASHIN, L.Z., redaktor; DOTSENKO, A.A.,  
tekhnicheskii redaktor

[Exercise therapy] Lechebnaia fizicheskaiia kul'tura. Moskva,  
Gos. izd-vo "Fizkul'tura i sport," 1956. 210 p. (MIRA 10:3)  
(EXERCISE THERAPY)

KACHOROVSKAYA, O.V.  
USSR/Human and Animal Physiology - Physiology of Labor and  
Sports.

V-10

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18719  
Author : O.V. Kachorovskaya  
Inst : The Kiev Institute of Physical Culture.  
Title : Change in Ventricular Systole in Athletes During Dynamic  
Exertion.  
Orig Pub : Tr. Kiievsk. in-ta fiz. kul'tury, 1957, 2, 51-61  
Abstract : No abstract.

Card 1/1

Card 1/1  
APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820005-1"

Author : O.V. Kachorovskaya  
Inst : The Kiev Institute of Physical Culture.  
Title : The Functional and Diagnostic Significance of Atrioventricular  
Conductivity in Athletes at Rest and During Physical  
Exertion (According to Electrocardiographic Data).  
Orig Pub : Tr. Kiievsk. in-ta fiz. kul'tury, 1957, 2, 69-73  
Abstract : No abstract.

Card 1/1

KACHOROVSKAYA, O.V.

USSR/Human and Animal Physiology - Physiology of Labor and  
Sports.

V-10

KACHOROVSKAYA, Ol'ga Vladimirovna, kand. med. nauk; PETRENKO,  
Marina Feofillovna MUMAVOV, I.V., red.

[Physical education as a means of preventing pre-mature age-connected changes] Fizicheskaiia kul'tura kak sredstvo preduprezhdeniia prezhevremennykh vozrastnykh izmenenii. Kiev, Zdorov'ie, 1964. 47 p.  
(MIRA 18:1)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000519820005-1

SUB CODE: SEC

APPROVED FOR RELEASE: 07/19/2001

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APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000519820005-1"

GNATYSHAK, A.I., doktor med. наук (L'vov, ul. Lenina, d. 151, кв. 5)  
KACHOROVSKIY, B.V., dotsent.

Bone hemangiomas. Vestn. khir. Grekov. 90 no.4:60-66 Ap'63

1. Iz kliniki obshchey khirurgii (zav. - prof. G.P. Kovtunovich)  
L'vovskogo meditsinskogo instituta.

KOVTONOVICH, G.P., prof., KACHOROVSKIY, B.V.

Treatment of birthmarks. Vrach.delo no.6:561-565 Je '58 (MIRA 11:?)

1. Klinika obshchey khirurgii (zav. - prof. G.P. Kovtunovich)  
Lvovskogo meditsinskogo instituta.  
(BIRTHMARKS)

KOVTONOVICH, G.P. (Lvov, ul. Lenina, d.5, kv.7); KACHOROVSKIY, B.V.

Vascular nevi and hemangioma of the skin. Vop.onk. 5 no.2:192-  
197 '59. (MIRA 12:6)

1. Iz kliniki obshchey khirurgii (zav. - prof. G.P.Kovtunovich)  
Lvovskogo meditsinskogo instituta.  
(ANGIOMA

skin, nevus vasculosa & hemangioma, comparisons  
(Rus))

(SKIN NEOPLASMS  
hemangioma & nevus vasculosa, comparisons (Rus))

KACHOROVSKIY, B.V. (L'vov, ul. Chaykovskogo, d.16, kv.4); PANOV, V.I.;  
PRAYVEL'D, E.L.

Chronic ileitis. Vest. Khir. 83 no.12:90-93 D '59. (MIRA 13:5)

I. Ix kliniki obshchey khirurgii (zav. - prof. G.P. Kovtunovich)  
i kafedry normal'noy anatomi (zav. - prof. A.P. Lyubomudrov)  
L'vovskogo meditsinskogo instituta.  
(ILEITIS REGIONAL)

DOTSENKO, N.S.; KACHOROVSKIY, B.V.

Epithelialization canals and epithelial cysts in the retrococcygeal  
region. Nov.khir.ark.h. no.1:50-52 '62. (MIRA 15:8)

1. Kafedra obshchey khirurgii (zav. - prof. G.P. Kovtunovich  
[deceased]) lechebnogo fakul'teta i kafedra patologicheskoy  
anatomii (zav. - dots N.S. Dotsenko) L'vovskogo meditsinskogo  
instituta.

(COCCYX--DISEASES) (FISTULA)

KACHOROVSKIY, B.V., dotsent

Formation of the cutaneous portion of the nasal septum in  
subtotal rhinoplasty. Zhur. ush., nos. i gorl. bol. 23 no.5:  
38-43 S-0'63 (MIRA 17:3)

1. Iz kafedry obshchey khirurgii lechenogo fakul'teta (zav.-  
prof. A.I. Gnatyshak) L'vovskogo gosudarstvennogo meditsin-  
skogo instituta.

KACHOROVSKIY, I., inzh.-podpolkovnik; GARTASHKIN, A., inzh.-podpolkovnik

Efficient method. Av.i kosm. 46 no.7:48-49 J1 '63. (MIRA 16:8)  
(Bombing, Aerial)

KACHOROVSKIY I. B.

86-11-12/31

AUTHOR: Kachorovskiy, I. B., Engr Maj, Mil Pilot

TITLE: How to Improve Landing Approach Accuracy under Complex Meteorological Conditions (Kak povysit' tochnost' zakhoda na posadku v slozhnykh meteo-sobytyakh)

PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 11, pp.45-49 (USSR)

ABSTRACT: The accuracy of landing approaches under unfavorable weather conditions is discussed by the author in this article. According to the author, some pilots during the landing approach descend to an altitude of 200 m earlier than is permissible, that is, the pilot should descend to that altitude not earlier than at a 30 second distance from the outer marker beacon. Such inaccuracy is caused often by the fact that some pilots do not know how to take into consideration the effect of the unstable zones (so-called "cone") on the readings of the radio compass. The author also describes in detail how to make allowance for that effect during the landing approach. Two diagrams are given.

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Card 1/1

KACHOROVSKIY, I.B., insh.-mayor, voynichnyy letchik vtorogo klassa

Attacking ground targets from a zooming turn or roll.  
Vest.Vozd.Fl. no.6:24-28 Je '60. (NIMA 13:?)  
(Bombing, Aerial) (Air warfare)

KACHOROVSKIY, I.B., inzh.-podpolkovnik, voyennyy letchik vtorogo klassa

Low-altitude target approach, Vest.Vozd.Fl. no.12:31-34 D '60,  
(MIRA 14:5)

(Airplanes--Piloting)

KACHOROVSKIY, I., inzhener-podpolkovnik, voyennyy letchik vtorogo klassa

At high speeds from pitching. Av.1 kosm. 44 no.2:46-48 '62.  
(MIRA 15:3)

(Bombing, Aerial)

KACHOROVSKIY, Yu. (Pol'skaya Narodnaya Respublika); KOLODZEY, V. (Pol'skaya  
Narodnaya Respublika)

Analysis of the results of underground storage of natural gas  
in the Rostoki field. Gas.prom. 4 no.1:51-56 Ja '59.  
(MIRA 12:1)

(Poland--Gas, Natural--Storage)

KACHOROVSKY, B.V.; MASLYAK, V.M.

Epithelial coccygeal subsidences. Akt. vop. prokt. no.2:78-83  
'63 (MIRA 18:1)

POBANE/Nuclear Physics - General

C

Abs Jour : Ref Zhpizika.., No 9, 1959, 1951<sup>4</sup>

Author : Kachowicz, Bronislaw

Inst : " Eighth Conference on Nuclear Spectroscopy, Held in  
Title : Leningrad 27 January -- 3 February 1958

Oeig Pub : Nukleonika, 1958, 3, No 5, 587-588

Abstract : No abstract.

Card 1/1

Some milk defects in the manufacture of kefir. Izv.vys.ucheb.  
zav.; pishch.tekh. no.2:75-78 '61. (MIRA 14:5)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy pro-  
myshlennosti. Kafedra tekhnologii mola i molochnykh produktov.  
(Kefir) (Milk)

TINYAKOV, Georgiy Gavrilovich, prof.; BELOUSOV, A.P., kand. khim. nauk, retsenzent; KOVALENKO, M.S., prof., retsenzent; GRISHCHENKO, A.D., dots., retsenzent; TVERDOKHLEB, G.V., dots., retsenzent; ALEKSEYEV, N.G., ass., retsenzent; KACHTOVA, L.A., ass., retsenzent; SERAYA, M.P., ispolnyayushchiy obyazannosti ass., retsenzent; KOSSOVA, O.N., red.; SOKOLOVA, I.A., tekhn. red.

[Microstructure of milk and milk products] Mikrostruktura moloka i molochnykh produktov. Moskva, Pishchepromizdat, 1963. 177 p. (MIRA 16:9)

1. Prepodavateli Leningradskogo tekhnologicheskogo instituta kholodil'noy promyshlennosti (for Kovalenko, Grishchenko, Tverdokhleb, Alekseyev, Kachtova, Seraya).  
(Dairy products--Analysis and examination)

KACHUGIN, V.Ye., aspirant

Calculating hydro-pneumatic suspensions of a motor vehicle.  
Izv. vys. ucheb. zav.; mashinostr. no.8:134-140 '65.  
(MIRA 18:10)

KACHUGIN, V.Ye., student

Designing the profile of the gas distribution cam for engines. Izv.  
vys.ucheb.zav.; mashinostr. no.6:159-162 '62. (MIRA 15:11)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana.  
(Cams)

L 16055-66

ACC NR: AP6003991

(A)

SOURCE CODE: UR/0145/65/000/008/0134/0140

AUTHOR: Kachugin, V. Ya. (Aspirant)

ORG: MVTU im. N. E. Bauman (MVTU)

TITLE: Calculation of hydropneumatic automobile suspensions

SOURCE: IVUZ. Mashinostroyeniye, no. 8, 1965, 134-140

TOPIC TAGS: hydropneumatic suspension, vehicle suspension, hydraulic device, pneumatic device

ABSTRACT: The hydropneumatic automobile suspension shown in Fig. 1 is analytically investigated. The governing equations are derived, and a simple relationship for calculating the suspension characteristics for the special case of no compressive shock absorber is introduced. The calculation of suspension characteristics (i.e., load-deflection curves) for given suspension parameters is described and illustrated graphically. A general equation is derived for the energy absorption capacity of the suspension, and its use is demonstrated by a graphical example. Since the area under the force-displacement curve from the initial position of the suspension to the intersection with a given hyperbola  $k_d = \text{const}$  (where  $k_d = Q_k/Q_{k0}$ ;

Card 1/2

UDC: 621.822.3

L 16055-66

ACC NR: AP6003991

Front Height

Regulator

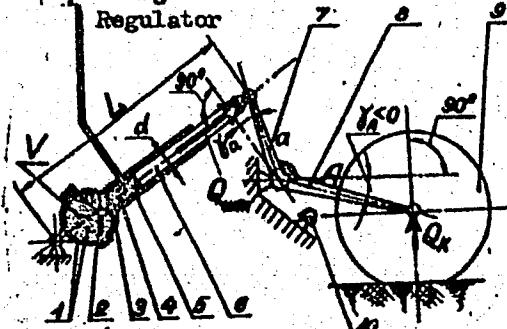


Fig. 1.

$Q_k$  = force on outer lever of suspension during wheel movement  $z_k$ ;  $Q_{k0}$  = static force) is independent of the chosen characteristic (load-deflection) curve, this area (or energy) can be used as a basis of comparison with other suspensions. This paper was presented by V. A. Galaashin, docent, candidate of technical sciences, MVTU im. N. E. Baumana.

SUB CODE: 13/ SUBM DATE: 12Jun64

Card 2/2 ✓✓.

KACHUGIN, V.Ye., student-diplomnik

Designing a crankshaft with a jaw of elliptic cross section.  
Izv. vys. ucheb. zav.; mashinostr. no.2:59-68 '63.

(MIRA 16:8)

1. Moskovskoye vyssheye tekhnicheskoye uchiliishche imeni  
Baumana.

KACHUGIN, E. G.

(Yevgenij Georgievich)

23035 Pererabota beregov pri podpore rek. Trudy mosk. Geol.-rasved.  
In-ta im. Ordzhonikidze, T. XXIV, 1949, C. 26-62. - Bibliogr: 27 nazv.

SO: LETOPIS' NO. 31, 1949

KACHUGIN, YE. G.

USSR/Engineering - Hydraulics,  
Reservoirs

Dec 51

"On the Extent of Bank Modification by River  
Backwater," Ye. G. Kachugin, Cand, Geol and  
Mineralogical Sci

"Gidrotekh Stroi" No 12, pp 31-34

Compiles tables of data on destruction of rivers  
banks by season, based on long-term observations  
over reservoirs near Moscow, on Upper Volga and  
Dnepr rivers. Develops practical method for  
calc of anticipated changes in shape of river  
banks.

200T97

PROKHOROV, S.P.; KACHUGIN, Ye.G.; MAKKAVEYEV, A.A., redaktor; ERTIN,  
M.L., redaktor; GUNOVA, O.A., tekhnicheskij redaktor.

[Methods guide for hydrogeological and engineering geological  
research in prospecting for hard mineral deposits] Metodicheskoe  
rukovodstvo po gidrogeologicheskim i inzhenerno-geologicheskim  
issledovaniiam pri razvedke mestoroshdenii tverdykh poleznykh  
iskopaemykh. Moskva, Gos.nauchno-tekn.izd-vo lit-ry po geolo-  
gii i okhrane nedr. 1955. 230 p.  
(MLRA 8:11)  
(Prospecting—Geophysical methods)  
(Geochemical prospecting)

SOV/14-57-12-25570  
Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr. 12,  
p 34 (USSR)

AUTHOR: Kachugin, Ye. G.

TITLE: A "Step" in the Settling of Slopes (O shage  
obrusheniya otkosov)

PERIODICAL: Tr. Vses. n.-i. in-ta gidrogeol. i inzh. geol., 1956,  
Nr 14, pp 143-149

ABSTRACT: Inclines and slopes can collapse catastrophically  
under certain conditions. An experiment was conducted  
in a specially built trough to study slopes in sands  
of various densities and thicknesses. The process of  
undercutting the base of the slope provided data on  
the moment of its "catastrophic" collapse, the height  
to which its sides cave in, its profile, etc. The  
experiment established that when the sloping fine-sand  
and loam banks of reservoirs are undercut by water,

Card 1/2

KACHUGIN, Ye.G.; AKSENOV, A.A.; BOL'SHAKOVA, V.V.; KITAYENKO, L.G.,  
red.irkut's'ka; BYKOVA, V.V., tekhn.red.

[Recommendations on the study of reservoir shore transformation]  
Rekomendatsii po izucheniiu pererabotki beregov vodokhranilishch.  
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedor,  
1959. 118 p. (MIRA 13:3)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut gidro-  
geologii i inzhenernoy geologii.  
(Coast changes) (Reservoirs)

KACHUGIN, Ye.G.

Principal results of long-range observations on the transformation  
of reservoir shores in the upper Volga Valley and the Moscow area.  
Trudy Okean.kom. 12:109-119 '61. (MIRA 15:1)

1. Laboratoriya gidrogeologicheskikh problem AN SSSR.  
(Volga Valley--Reservoirs) (Moscow Province--Reservoirs)  
(Coast changes)